Restricted Circulation

This paper is not an official document; it is for information only and reference cannot be made to it in any printed publication without the permission of the author.

Agricultural Memorandum No. 556

Twelve years data of pig deaths and temperature

L P Smith

Previous analysis of the deaths of pigs in transit had indicated a close relationship with mean day-time temperature within two ranges January to July, and August to December.

Data for 12 years from another centre with an average monthly traffic of about 45,000 pigs, produced the following averages.

Month	Mean daytime temperature	Ratio Dead on Arrival	Ratio Dead in Pens	Ratio Total Dead
JAN	5.1	2.7	3.3	6.0
FEB	5.6	3.4	3.6	7.0
MAR	7.5	3.4	4.0	7.4
APR	10.2	3.9	3.9	7.8
MAY	13.6	5.9	4.8	10.7
JUN	16.4	8.3	6.8	15.1
JUL	18.1	9.0	7.4	16.4
AUG	17.6	7.1	5.9	13.0
SEP	15.9	6.5	5.2	11.7
OCT	13.1	5.9	4.9	10.8
NOV	8.2	3.6	4.2	7.8
DEC	5.7	2.5	3.6	6.1

Correlations

	Jan - July	Aug - Dec
Temperature on D.O.A.	0.97	0.99
on D.I.P.	0.95	0.98
on Total	0.96	0.99

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell JUNE 1973

EB/6/73/60